

INVESTIGATOR'S ANNUAL REPORT

United States Department of the Interior National Park Service

All or some of the information you provide may become available to the public.

OMB # (1024-0236) Exp. Date (11/30/2010) Form No. (10-226)

Reporting Year: 2007	Park: Shenandoah NP				Select the type of permit this report addresses: Scientific Study	
Name of principal investigator or responsible official: Christopher Bailey				Office Phone: 757-221-2445		
Mailing address: Dept Of Geology P.O. Box 8795 College of William & M Williamsburg, VA 2318 USA Additional investigato No co-investigators Project Title (maximu Structural Geology a	rs or key field as m 300 character	rs):	· 	Of Con cone, office phone	fice FAX 57-221-2093 fice Email nbail@wm.ec	
Park-assigned Study or Activity #: Park-assign			ned Permit #: Permit St 05-SCI-0005 Mar 20,			Permit Expiration Date: Mar 19, 2007
Scientific Study Starting Date: Mar 20, 2005			Estimated Scientific Study Ending Date: Mar 19, 2007			
For either a Scientific Study or a Science Education Activity, the status is:			For a Scientific Study that is completed, please check each of the following that applies:			
Continuing			 A final report has been provided to the park or will be provided to the park within the next two years Copies of field notes, data files, photos, or other study records, as agreed, have been provided to the park All collected and retained specimens have been cataloged into the NPS catalog system and NPS has processed loan agreements as needed 			
Activity Type: Research						
Subject/Discipline: Geostructure / Tector	nics					

Purpose of Scientific Study or Science Education Activity during the reporting year (maximum 4000 characters):

The purpose of this project is to better understand the structural geology, timing of geologic events, and overall tectonic history of the Blue Ridge and Great Valley Region in and near Shenandoah National Park. This study is collaborative research with the U.S Geologic Survey's ongoing studies of the Appalachian Mountains.

Findings and status of Scientific Study or accomplishments of Science Education Activity during the reporting year (maximum 4000 characters):

In 2007 we continued our geologic mapping efforts in the southern part of Shenandoah National Park. Presented the results of our work in the Browns Cove area at a Geological Society of America meeting and led a field review for personnel at the USGS and Virginia Division of Mineral Resources. We also produced a GoogleEarth module on Shenandoah National Park that is available for

downloading (http://www.wm.edu/geology/virginia/ge.php). Sample were collected for Ar/Ar geochronology in and around the southern part of the park.

For Scientific Studies (not Science Education Activities), were any specimens collected and removed from the park but not destroyed during analysis?

Yes

If "Yes", identify where the specimens currently are stored:

College of William & Mary and USGS, Reston

Fu	anding specifically used in this park this reporting year that	Funding specifically used in this park this reporting year that
wa	as provided by NPS (enter dollar amount):	was provided by all other sources (enter dollar amount):
\$	60	\$18000

List any other U.S. Government Agencies supporting this study or activity and the funding each provided this reporting year:

Paperwork Reduction Act Statement: A federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Public reporting for this collection of information is estimated to average 1.625 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms. Direct comments regarding this burden estimate or any aspect of this form to Dr. John G. Dennis, Natural Resources (3127 MIB), National Park Service, 1849 C Street, N.W., Washington, DC 20240.